LISTING OF THE CLAIMS

1. (Withdrawn) A method for characterising OSI-materials, comprising:

introducing the material into a measurement cell;

subjecting the material to a gas mixture containing oxygen;

permitting a certain time or one or more time intervals to elapse;

measuring and oxygen concentration of a defined volume part of the gas mixture using a measurement circuit, in which the oxygen concentration together with the time component represents a characterisation of the OSI-material,

wherein the OSI-material in the measurement cell is subjected to the gas mixture circulated in a closed reaction circuit, and the defined volume part is conveyed into the measurement circuit.

- 2. (Withdrawn) The method according to claim 1, wherein O_2 -scavengers and/or O_2 -indicators are applied as the OSI-materials.
- 3. (Withdrawn) The method according to claim 1, wherein, for characterising the material in the measurement cell, in particular an O_2 -scavenger, at least one of: (i) an oxygen reduction in a gas flow in dependence on a mass of the material is measured as a capacity variable; and (ii) the temporal change of the oxygen reduction is measured as a kinetic variable.
- 4. (Withdrawn) The method according to claim 1, wherein a colour and/or a colour change of the material in dependence on the oxygen concentration is measured, for characterising the material in the measurement cell, in particular an O_2 -indicator.
- 5. (Withdrawn) The method according to claim 4, wherein the colour and/or the colour change and/or the colour change in dependence on an integral of the oxygen concentration multiplied by time is measured.
- 6. (Withdrawn) The method according to claim 4, wherein, with O₂-scavenger/O₂-indicator systems, the colour change of the O₂-indicator in dependence on the residual capacity of the O₂-

scavenger is determined.

- 7. (Withdrawn) The method according to claim 1, wherein, for initialising the OSI-material, the gas flow in the reaction circuit is subjected to humidity.
- 8. (Withdrawn) The method according to claim 1, wherein, for initialising the OSI-material, the measurement cell is subjected to UV-radiation.
- 9. (Withdrawn) The method according to claim 8, wherein an initialisation point or initialisation region of the OSI-material is determined depending on at least one of a relative humidity, an intensity, and a wavelength region of the radiation.
 - 10. (Currently Amended) A device for characterising OSI-materials, comprising:
- a closed reaction circuit having a device for supplying a gas flow containing oxygen, a pump for delivery of the gas flow, and a measurement cell for receiving the OSI-material; and
- a closed measurement circuit having a device for supplying a gas flow, a pump for delivery of the gas flow and a sensor arrangement for detecting oxygen, and an evaluation unit,

wherein a sample loop with a defined volume is arranged in the <u>closed</u> reaction circuit, which for conveying the defined volume of the gas flow of the reaction circuit <u>may is operable to</u> be switched into the <u>closed</u> measurement circuit <u>from the closed reaction circuit</u>, and the <u>sample loop is operable to be</u> switched into the closed reaction circuit from the closed measurement circuit.

- 11. (Previously Presented) The device according to claim 10, wherein the measurement circuit is a closed measurement circuit and comprises a device for the supply of the gas flow, a pump for delivery of the gas flow, wherein a part of the reaction circuit, with the defined volume, may be switched into the measurement circuit via valves.
- 12. (Previously Presented) The device according to claim 11, wherein the measurement circuit comprises a switch-over branch which may be switched into the reaction circuit via the valves when the part of the reaction circuit with the defined volume is switched into the measurement circuit.

- 13. (Previously Presented) The device according to claim 10, wherein the sensor arrangement contains at least one oxygen-sensitive sensor, and the evaluation unit contains an integrator.
- 14. (Previously Presented) The device according to claim 10, wherein the device for the supply of the gas flow containing oxygen into the reaction circuit is connected to a humidification unit, which subjects the gas flow to a humidification for the initialisation of the material in the measurement cell.
- 15. (Previously Presented) The device according to claim 10, wherein the measurement cell is transparent to settable wavelength regions.
- 16. (Previously Presented) The device according to 15, wherein a UV-radiation source which irradiates the material for its initialisation, is allocated to the measurement cell.
- 17. (Previously Presented) The device according to claim 10, further comprising a device for measuring the colour and/or the colour change of the material allocated to the measurement cell.
- 18. (Previously Presented) The device according to claim 10, wherein the reaction circuit comprises a sample loop containing the defined volume part, which may be switched into the measurement circuit via multi-way valves.
- 19. (Previously Presented) The device according to claim 10, wherein the components of the reaction circuit and of the measurement circuit are encapsulated.